

What is claimed is:

1. An electron tube comprising:

a vessel;

a primary linear member installed in the vessel;

5 an electrode disposed in the vessel;

a first auxiliary linear member and a second auxiliary linear member disposed at different heights to interpose the primary linear member therebetween; and

10 a plurality of fixing members, formed at a single substrate for constituting a part of the vessel, for fixing end portions of the first auxiliary and the second auxiliary linear member thereto.

2. The electron tube of claim 1, wherein the first and
15 the second auxiliary linear member are fixed to the fixing members by embedding at least parts of the end portions thereof therein.

3. The electron tube of claim 1, further comprising a
20 number of metal layers formed at the substrate, and

wherein the fixing members are fixedly attached to the metal layers by an ultrasonic bonding method, and the end portions of the first and the second auxiliary linear member are fixedly attached to the fixing members by the ultrasonic
25 bonding method.

4. The electron tube of claim 1, wherein the first and the second auxiliary linear member are arranged in a direction intersecting the primary linear member, and

wherein the fixing members include spacer pads determining heights of the auxiliary members, the spacer pads being fixed to the substrate via metal layers formed thereat, and one end of the first auxiliary member and one end of the second auxiliary member are fixed to one spacer pad.

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5. The electron tube of claim 4, wherein said one end of the first auxiliary linear member and said one end of the second auxiliary linear member are fixed at different locations of said one spacer pad.

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6. The electron tube of claim 4, wherein the first and the second auxiliary linear member are fixed to a same spacer pad to face each other.

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7. The electron tube of claim 1, wherein the first and the second auxiliary linear member are arranged in a direction intersecting the primary linear member, and

wherein the fixing members include spacer pads determining heights of the auxiliary members, the spacer pads being fixed to the substrate via metal layers formed thereat, and end portions of the auxiliary member are fixed

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to different spacer pads.

8. The electron tube of claim 7, further comprising at least one additional first auxiliary linear member and at least one additional second linear member, and

wherein the first auxiliary linear members of a first height and the second auxiliary linear members of a second height are alternately disposed along a length direction of the primary linear member.

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9. The electron tube of claim 1, further comprising a metal layer formed at the substrate, and

wherein the first and the second auxiliary linear member are arranged in a direction intersecting the linear member, and

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wherein a fixing member for fixing one end portion of the first auxiliary linear member serves as a spacer member of the second auxiliary linear member for determining a height thereof, said fixing member being fixed to the metal layer.

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10. The electron tube of claim 9, wherein said one fixing member and a fixing member for fixing one end portion of the second auxiliary linear member are fixed to the metal layer.

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